

AMENDMENTS TO THE CLAIMS

Please amend the claims in above-identified patent application as follows and as shown on the Claims Listing dated May 17, 2004 appended hereto.



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- 1 (cancelled)
6. (currently amended) ~~The~~ A DNA sequence ~~according to~~ comprising the sequence of SEQ ID NO: 5.
7. (currently amended) A transformation vector ~~containing~~ comprising the sequence of SEQ ID NO: 5.
- 8-15 (cancelled)
16. (currently amended) A process for selecting yeast transformants useful in the production of a eukaryotic alkaline phosphatase, said process comprising the steps of:
- (a) transforming yeast cells with a vector comprising a ~~resistance~~ first marker gene ~~for a first selection marker~~ encoding resistance to a first antibiotic and ~~the~~ an alkaline phosphatase gene comprising a sequence selected from the group consisting of SEQ ID NO: 1 and SEQ ID NO: 5;
 - (b) selecting transformants that grow in medium containing a first concentration of the first ~~selection marker~~ antibiotic;
 - (c) further transforming the selected transformants with a vector comprising a ~~resistance~~ gene the first marker ~~for the first selection marker~~ and the alkaline phosphatase gene;
 - (d) identifying transformants that have incorporated multiple copies of the alkaline phosphatase gene by selecting those ~~transformants~~ transformants that grow in medium containing a second concentration of the first ~~selection marker~~ antibiotic, said second concentration being higher than the first concentration;
 - (e) further transforming the identified transformants with a vector comprising a ~~resistance~~ second marker gene for encoding resistance to a second selection marker antibiotic and the alkaline phosphatase gene; and

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- (f) selecting transformants that grow in medium containing the second ~~selection marker~~ antibiotic.
17. (cancelled)
18. (cancelled)
19. (currently amended) The process as claimed in claim 16, wherein ~~methylophilic~~ the yeast cells are ~~used~~ methylophilic.
20. (currently amended) The process as claimed in claim 16, wherein the yeast cells are from Pichia pastoris or Hansenula polymorpha ~~is used as the yeast strain~~.
21. (currently amended) The process as claimed in claim 16, wherein the transformants that grow in medium containing the second ~~selection marker~~ antibiotic are transformed at least once more with a vector comprising ~~a resistance~~ the second marker gene for the second selection marker and the alkaline phosphatase gene and the transformants that grow in medium containing the second ~~selection marker~~ antibiotic are selected.
22. (currently amended) A process for selecting yeast transformants useful in the production of a eukaryotic alkaline phosphatase, said process comprising the steps of:
- (a) transforming yeast cells more than one time with a vector comprising a ~~resistance marker gene for encoding resistance to a first selection marker~~ antibiotic and the an alkaline phosphatase gene comprising a sequence selected from the group consisting of SEQ ID NO: 1 and SEQ ID NO: 5;
- (b) identifying transformants that have incorporated multiple copies of the alkaline phosphatase gene by selecting those ~~transformants~~ transformants that grow in medium containing a concentration of the first ~~selection marker~~ antibiotic that is higher than that used for selection of transformants that have incorporated a single copy of the alkaline phosphatase gene;

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- (c) further transforming the identified transformants with a vector comprising a ~~resistance~~ marker gene for encoding resistance to a second ~~selection marker~~ antibiotic and the alkaline phosphatase gene; and
 - (d) selecting transformants that grow in medium containing the second ~~selection marker~~ antibiotic.
23. (currently amended) A process for the production of a eukaryotic alkaline phosphatase in yeast cells comprising the steps: ~~a) of selecting a transformant using~~ according to the process of claim 16, ~~21 or 22; b) expressing the alkaline phosphatase; and c), and~~ and purifying the alkaline phosphatase.